- bid evaluations, coordination of installations, and acceptance testing;
- vendor liaison including hardware and software problem determination and resolution;
- liaison with other computer installations and agencies managing data relevant to the A/P Study; and
- documentation of the data management procedures, standards, and software that are developed as part of the A/P System.

Among the special responsibilities of CGIA for the A/P Study are development of a comprehensive data management plan; design, development, and documentation of custom applications software; coordination of the cataloging of data and literature; coordination and performance of user training and assistance; and preparation of progress reports.

Potential users of the system include a number of individuals from a wide variety of agencies and organizations at the local, state, and federal levels as identified in Section 2.2. To ensure that these people are able to use the system in an effective manner, training courses, user manuals, and technical support will be provided by CGIA.

## 3.2 Inputs-Outputs

There are primarily three types of inputs to the A/P System. These are attribute data, cartographic data, and user responses. Cartographic data consist of a collection of points, lines, or polygons used to represent map features such as roads, streams, or county boundaries. Landsat satellite imagery depicting land use/land cover classifications is also available from the A/P Database. This data will be converted from a raster, pixel format to a vector format represented as polygons. This is an example of cartographic data derived from a non-map source. Attribute data consist of a collection of codes, numbers, and text that provides descriptive information and are stored as a table of columns and rows. User inputs consist primarily of selecting commands, selecting data layers to work with, and providing information for labeling reports.

Outputs from the A/P System will include reports, statistical graphs, and maps. Users will be able to preview or display data at a terminal, send them to a plotter or printer, or archive them on a magnetic tape.

Reports are documents that display data from one or more attribute data sets. All tabular reports will be a maximum of 80 characters wide. This width will enable reports to be viewed on the terminal or printed on standard office paper. When the